Michael Rutkowski

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Github: https://github.com/mjr390
Portfolio: https://mjr390.github.io/

Data Analyst passionate about discovering what can be uncovered from large datasets. Persistent learner who loves encountering new challenges and stays calm under pressure. Capable in creating visual representations of data in Tableau to convey conclusions and present them to an audience.

TECHNICAL SKILLS

Languages: Python, R, Javascript, VBA | Data Manipulation & Visualization: Pandas, Matplotlib, Seaborn, Tableau | Database: SQL, MySQL, SQLAlchemy, MongoDB | Other: GitHub, Excel, MS Office, PowerPoint, HTML/CSS, Bootstrap, VADER, Flask, D3.js, Numpy

EDUCATION

- Rutgers, the State University of New Jersey, New Brunswick, NJ

  Rutgers Data Science Bootcamp

- Montclair State University

  Bachelor of Science in Business Administration (Finance & Marketing), Cum Laude

PROJECTS

News Mood | Python, Matplotlib, Pandas, Tweepy | GitHub   **Solo Developer**

Data application for visualizing the sentiment of tweets sent out by news organizations

- Analyzed how weather varies based on proximity to the equator
- Used Python, Pandas, matplotlib, JSON, VADER, and Tweepy to collect and analyze the 100 most recent tweets from five different news organizations
- Created and exported visualizations of findings

VBA Stock Analysis | Excel, VBA | GitHub   **Solo Developer**

Script for going through stock market data and returning information about yearly performance

- Computed yearly change in dollars and percentage for numerous stocks
- Used VBA scripting to loop through multiple worksheets to find summary information for each worksheet
- Returned the information on the worksheet with labels

Pyber | Python, Matplotlib, Numpy, Pandas | GitHub   **Solo Developer**

Jupyter Notebook file that imports CSVs to visualize the data of a ride-sharing company

- Compared the volume of business between different city types
- Combined multiple CSVs and cleaned the information in them to create a single data frame
- Exported each visualization into a new file useable on a website or PowerPoint presentation

Heroes of Pymoli | Python, Pandas, Numpy | GitHub   **Solo Developer**

Jupyter Notebook file that imports a csv to analyze the data of a gaming company

- Gathered insights on demographic and sales data
- Used pandas to create data frames for many categories such as age, gender, and purchasable items
- Binned and sorted data frames to find conclusions about the most profitable items, most popular items and how sales were broken down by age

EXPERIENCE

Tutor - Data Science and Visualization – *Trilogy Education*   **November 2018 - Present**

- Teaching students how to code with 1:1 online support sessions
- Focus areas include: Python, Pandas, Matplotlib, SQL and GitHub

Professional Gambler - Poker – *Independent*   **August 2014 - May 2018**

- Made strategic decisions based off of other player's tendencies
- Analyzed decision trees to determine which action would yield the highest expected value
- Determined probability of having the best hand while at the table

Data Coordinator – *CTAS US LLC.*   **March 2013 - August 2014**

- Created pivot tables to display information to clients
- Imported information from databases into Excel
- Pulled, printed, organized, and closed invoices